BRUHAT BANGALORE MAHANAGARA PALIKE

Name of the Work : Improvements to Roads,drains,footpath and park in ward no.08,Bytarayanapura Division (Package includes 11 Works of Rs 1010 lakhs)

BYATARAYANAPURA DIVISION

DETAILED MEASURMENT BOOK

1st PART BILL

Name of the Work : Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :-

Name of Agency :- M/s Karthik Enterprises

Bill No :- 1st Part Bill

Measurements recorded on 06/10/2017

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
2	Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)										
	LKR Nagara Main Road										
	LHS From Railway Gate to Towards SWD Drain										
	273.30	286.60		1.00	13.30						New Bs Slab
	286.60	310.40		1.00	23.80						New Bs Slab
	310.40	361.40		1.00	51.00						New Bs Slab
	361.40	363.40		1.00	2.00						Secondary Storm water Drain
	LHS From SWD to towards Devinagara Main Road										
	0.00	17.20		1	17.20						New Bs Cover
	17.20	26.70		1	9.50						CQAL Layout C/S Road Culvert
	26.70	39.70		1	13.00						New Bs Cover
	39.70	51.70		1	12.00						New Bs Cover
	51.70	60.00		1	8.30						Cross Road Culvert New
	60.00	85.30		1	25.30						New Bs Cover
	85.30	93.00		1	7.70						Cross Road to Kannoramma temple
	93.00	95.00		1	2.00						Main Road Culvert
	95.00	109.60		1	14.60						New Bs Cover
	109.60	117.80		1	8.20						Apartment Entry
	117.80	123.30		1	5.50						New Bs Cover
	123.30	129.30		1	6.00						C/s Road New Culvert
	129.30	157.30		1	28.00						New Bs Cover
				1	28.00			3.20		89.60	Existing Footpath BS Cover
	157.30	164.00		1	6.70						Apartment Entry
	164.00	172.00		1	8.00						New Bs Cover
				1	8.00			3.40		27.20	Existing Footpath BS Cover
	172.00	180.40		1	8.40						Apartment Entry
	180.40	198.40		1	18.00			1.00		18.00	Existing BS Cover
				1	18.00			2.00		36.00	Existing Footpath BS Cover
	198.40	200.00		1	1.60						Main Road Culvert
	200.00	230.00		1	30.00						New Bs Cover
				1	30.00						Footpath BS Cover New
	230.00	250.00		1	20.00						New Bs Cover
				1	20.00			2.10		42.00	Existing Footpath BS Cover
	250.00	260.00		1	10.00						New BS Cover
	260.00	283.50		1	23.50			0.90		21.15	Existing BS Cover
	283.50	293.50		1	10.00						New Bs Cover
				1	33.50			2.10		70.35	Existing Footpath BS Cover
	293.50	298.80		1	5.30						Apartment Entry
	298.80	305.80		1	7.00						New Bs Cover
				1	7.00			3.00		21.00	Existing Footpath BS Cover
	RHS From SWD to towards Devinagara Main Road										
	0.00	18.00		1	18.00			0.90			New BS Cover
	18.00	30.00		1	12.00						New BS Cover
	30.00	49.00		1	19.00			1.00			
	49.00	52.00		1	3.00			1.50		4.50	C/S Road Culvert
	52.00	79.00		1	27.00			0.90			
	79.00	84.00		1	5.00			1.50		7.50	Culvert 1st A Cross
	84.00	104.30		1	20.30			0.90			

Consultant

Assistant Engineer
W08

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	104.30	108.30		1	4.00						New BS Cover
	108.30	113.30		1	5.00			1.50		7.50	Culvert 1st Cross
	113.30	138.70		1	25.40			1.00			
	138.70	143.60		1	4.90			1.50		7.35	Culvert 2nd Cross
	143.60	148.40		1	4.80			-			Ganesha Temple
	148.40	160.60		1	12.20			-			
	160.60	166.70		1	6.10			1.50		9.15	Culvert 3rd Cross
	166.70	190.90		1	24.20			0.90		21.78	
	190.90	193.90		1	3.00			-			New BS Cover
	193.90	199.50		1	5.60			1.50		8.40	
	199.50	201.00		1	1.50			-			Main road culvert
	201.00	227.60		1	26.60			0.90			
	227.60	234.60		1	7.00			-			C/S Road no work
	234.60	273.00		1	38.40			0.90			
	273.00	279.60		1	6.60			1.50		9.90	Culvert 6th Cross
	279.60	314.70		1	35.10			0.90			
							Total Qty in Sqm			401.38	

Consultant

Assistant Engineer 6/10/17

Assistant Executive Engineer 6/10/17

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
4	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)										
	LKR Nagara Main Road										
	LHS From Railway Gate to Towards SWD Drain										
	273.30	286.60		1.00	13.30			1.10	0.85	12.44	From DsMax apt Cross Road
	286.60	310.40		1.00	23.80			1.10	1.00	26.18	
	310.40	361.40		1.00	51.00			1.10	1.20	67.32	
	361.40	363.40		1.00	2.00						Secondary Storm water Drain
	LHS From SWD to towards Devinagara Main Road										
	0.00	17.20		1	17.20			1.10	1.10	20.81	
	17.20	26.70		1	9.50			1.60	1.00	15.20	CQAL Layout C/S Road Culvert
	26.70	51.70		1	25.00			1.10	1.05	28.88	
	51.70	60.00		1	8.30			1.60	1.20	15.94	Culvert new
	60.00	85.30		1	25.30			1.10	1.05	29.22	
	85.30	93.00		1	7.70			0.00			Cross Road to Kannoramma temple
	93.00	95.00		1	2.00			1.10	1.10	2.42	Main Road Culvert
	95.00	109.60		1	14.60			1.10	1.10	17.67	
	109.60	117.80		1	8.20			0.00			Apartment entry Culvert
	117.80	123.30		1	5.50			1.10	1.00	6.05	
	123.30	129.30		1	6.00			0.00			Culvert
	129.30	157.30		1	28.00			1.10	1.05	32.34	
	157.30	164.00		1	6.70			0.00			Culvert
	164.00	172.00		1	8.00			1.10	1.00	8.80	
	172.00	180.40		1	8.40			0.00			Apartment entry Culvert
	180.40	198.40		1	18.00			1.10	1.00	19.80	
	198.40	200.00		1	1.60			1.10	1.10	1.94	
	200.00	230.00		1	30.00			1.10	1.10	36.30	
	230.00	260.00		1	30.00			1.10	1.10	36.30	
	260.00	293.50		1	33.50			1.10	1.20	44.22	
	293.50	298.80		1	5.30			0.00			Apartment entry Culvert
	298.80	305.80		1	7.00			1.10	1.20	9.24	
	RHS From SWD to towards Devinagara Main Road										
	0.00	30.00		1	30.00			1.10	1.05	34.65	
	30.00	49.00		1	19.00			1.10	1.00	20.90	
	49.00	52.00		1	3.00			—	—		Culvert
	52.00	79.00		1	27.00			1.10	1.05	31.19	
	79.00	84.00		1	5.00			—	—		Culvert 1 A st Cross
	84.00	108.30		1	24.30			1.10	1.00	26.73	
	108.30	113.30		1	5.00			—	—		Culvert 1st Cross
	113.30	138.70		1	25.40			1.10	1.05	29.34	
	138.70	143.60		1	4.90			—	—		Culvert 2nd Cross
	143.60	148.40		1	4.80			1.10	1.00	5.28	
	148.40	160.60		1	12.20			1.10	1.00	13.42	
	160.60	166.70		1	6.10			1.60	1.05	10.25	New Culvert 3rd Cross
	166.70	193.90		1	27.20			1.10	1.00	29.92	
	193.90	199.50		1	5.60			—	—		Culvert 4th Cross
	199.50	201.00		1	1.50			1.10	1.00	1.65	Main Road Culvert
	201.00	227.60		1	26.60			1.10	1.05	30.72	
	227.60	234.60		1	7.00			—	—		5th Cross Road
	234.60	273.00		1	38.40			1.10	1.00	42.24	

Consultant

Assistant Engineer W.08 10/10/2017

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli											
BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	273.00	279.60		1	6.60						Culvert 6th Cross
	279.60	314.70		1	35.10			1.10	1.05	40.54	
	Desilt for SWD Secondary drain										
	0.00	100.00		1	100.00			1.50	1.00	150.00	
	Cross Road Culvert Lkr Nagara										
	134.00	139.50		1.00	5.50			1.60	1.00	8.80	Culvert at LKR Nagara
							Total Qty in Cum			906.68	

TEJUS CONSULTANTS

Consultant

Assistant Engineer 10/10

10/10/12

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
5	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)										
	LKR Nagara Main Road										
	LHS From Railway Gate to Towards SWD Drain										
	273.30	286.60		1.00	13.30			1.10	0.10	1.46	From DsMax apt Cross Road
	286.60	310.40		1.00	23.80			1.10	0.10	2.62	
	310.40	361.40		1.00	51.00			1.10	0.10	5.61	upto Swd
	LHS From SWD to towards Devinagara Main Road										
	0.00	17.20		1	17.20			1.10	0.10	1.89	
	17.20	26.70		1	9.50			1.60	0.15	2.28	EQAL Layout C/S Road Culvert
	26.70	51.70		1	25.00			1.10	0.10	2.75	
	51.70	60.00		1	8.30			1.60	0.15	1.99	Culvert new
	60.00	85.30		1	25.30			1.10	0.10	2.78	
	85.30	93.00		1	7.70			0.00	0.00		Cross Road to Kannoramma temple
	93.00	95.00		1	2.00			1.10	0.10	0.22	Main Road Culvert
	95.00	109.60		1	14.60			1.10	0.10	1.61	
	109.60	117.80		1	8.20			0.00	0.00		Apartment entry Culvert
	117.80	123.30		1	5.50			1.10	0.10	0.61	
	123.30	129.30		1	6.00			1.60	0.15	1.44	Apartment entry Culvert
	129.30	157.30		1	28.00			1.10	0.10	3.08	
	157.30	164.00		1	6.70			0.00	0.00		Apartment entry Culvert
	164.00	172.00		1	8.00			1.10	0.10	0.88	
	172.00	180.40		1	8.40			0.00	0.00		Apartment entry Culvert
	180.40	198.40		1	18.00			1.10	0.10	1.98	
	198.40	200.00		1	1.60			1.10	0.10	0.18	Main Road Culvert
	200.00	230.00		1	30.00			1.10	0.10	3.30	
	230.00	260.00		1	30.00			1.10	0.10	3.30	
	260.00	293.50		1	33.50			1.10	0.10	3.69	
	293.50	298.80		1	5.30			0.00	0.00		Apartment entry Culvert
	298.80	305.80		1	7.00			1.10	0.10	0.77	
	RHS From SWD to towards Devinagara Main Road										
	0.00	30.00		1	30.00			1.10	0.10	3.30	
	30.00	49.00		1	19.00			1.10	0.10	2.09	
	49.00	52.00		1	3.00			0.60	—		Culvert Bed Rising
	52.00	79.00		1	27.00			1.10	0.10	2.97	
	79.00	84.00		1	5.00			0.00	0.00		Culvert 1 A st Cross
	84.00	108.30		1	24.30			1.10	0.10	2.67	
	108.30	113.30		1	5.00			0.60	0.20	0.60	Culvert 1st Cross
	113.30	138.70		1	25.40			1.10	0.10	2.79	
	138.70	143.60		1	4.90			0.00	0.00		Culvert 2nd cross
	143.60	148.40		1	4.80			1.10	0.10	0.53	
	148.40	160.60		1	12.20			1.10	0.10	1.34	
	160.60	166.70		1	6.10			1.60	0.15	1.46	New Culvert 3rd Cross
	166.70	193.90		1	27.20			1.10	0.10	2.99	
	193.90	199.50		1	5.60			0.60	—		Culvert 4th Cross (Bed Rising)
	199.50	201.00		1	1.50			1.10	0.10	0.17	Main Road Culvert
	201.00	227.60		1	26.60			1.10	0.10	2.93	
	227.60	234.60		1	7.00			0.00	0.00		5th Cross Road
	234.60	273.00		1	38.40			1.10	0.10	4.22	

TEJUS CONSULTANTS
Consultant

Assistant Engineer 13/10

Assistant Executive Engineer 20/10/17

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage										
	273.00	279.60		1	6.60			0.60	0.10	0.40	Culvert 6th Cross(Bed Rising)
	279.60	314.70		1	35.10			1.10	0.10	3.86	
	Cross Road Culvert Lkr Nagara										
	134.00	139.50		1	5.50			1.60	0.15	1.32	Culvert at LKR Nagara
							Total Qty in Cum			76.08	

Consultant

Assistant Engineer 19/10

20/10/17
Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
6	Providing laying plain/ reinforced cement concrete M20 Grade for Box Drain walls of thickness 10cm to 20cm including centering shuttering for work etc. complete as per approved drawing and design MORTH specification No. 1500, 1700, 2200. (P.No.265, I.No.37.59.2 of PW, P&IWTD SR 2016-17)										
	LKR Nagara Main Road										
	Drain Raft										
	LHS From Railway Gate to Towards SWD Drain										
	273.30	286.60		1.00	13.30	—	—	0.90	0.15	1.80	
	286.60	310.40		1.00	23.80	—	—	0.90	0.15	3.21	
	310.40	361.40		1.00	51.00	—	—	0.90	0.15	6.89	
	LHS From SWD to towards Devinagara Main Road										
	0.00	17.20		1	17.20	—	—	0.90	0.15	2.32	
	26.70	51.70		1	25.00			0.90	0.15	3.38	
	60.00	85.30		1	25.30			0.90	0.15	3.42	
	95.00	109.60		1	14.60			0.90	0.15	1.97	
	117.80	123.30		1	5.50			0.90	0.15	0.74	
	129.30	157.30		1	28.00			0.90	0.15	3.78	
	164.00	172.00		1	8.00			0.90	0.15	1.08	
	180.40	198.40		1	18.00			0.90	0.15	2.43	
	198.40	200.00		1	1.60			0.90	0.15	0.22	
	200.00	230.00		1	30.00			0.90	0.15	4.05	
	230.00	260.00		1	30.00			0.90	0.15	4.05	
	260.00	293.50		1	33.50			0.90	0.15	4.52	
	298.80	305.80		1	7.00			0.90	0.15	0.95	
	RHS From SWD to towards Devinagara Main Road										
	0.00	30.00		1	30.00			0.90	0.15	4.05	
	30.00	49.00		1	19.00			0.90	0.15	2.57	
	52.00	79.00		1	27.00			0.90	0.15	3.65	
	84.00	108.30		1	24.30			0.90	0.15	3.28	
	113.30	138.70		1	25.40			0.90	0.15	3.43	
	143.60	148.40		1	4.80			0.90	0.15	0.65	
	148.40	160.60		1	12.20			0.90	0.15	1.65	
	166.70	193.90		1	27.20			0.90	0.15	3.67	
	199.50	201.00		1	1.50			0.90	0.15	0.20	
	201.00	227.60		1	26.60			0.90	0.15	3.59	
	234.60	273.00		1	38.40			0.90	0.15	5.18	
	279.60	314.70		1	35.10			0.90	0.15	4.74	
	Drain side wall										
	LHS From Railway Gate to Towards SWD Drain										
	273.30	286.60		2.00	13.30			0.15	0.55	2.19	
	286.60	310.40		2.00	23.80			0.15	0.75	5.35	
	310.40	361.40		2.00	51.00			0.15	0.95	14.54	
	LHS From SWD to towards Devinagara Main Road										
	0.00	17.20		2	17.20			0.15	0.80	4.13	
	26.70	51.70		2	25.00			0.15	0.75	5.63	
	60.00	85.30		2	25.30			0.15	0.75	5.69	
	93.00	95.00		2	2.00			0.15	0.80	0.48	
	95.00	109.60		2	14.60			0.15	0.75	3.29	
	117.80	123.30		2	5.50			0.15	0.65	1.07	
	129.30	157.30		2	28.00			0.15	0.65	5.46	

Consultant

Assistant Engineer W.O8
7/11/2017

Assistant Executive Engineer
7/11/17

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	164.00	172.00		2	8.00			0.15	0.70	1.68	
	180.40	198.40		2	18.00			0.15	0.70	3.78	
	198.40	200.00		2	1.60			0.15	0.75	0.36	
	200.00	230.00		2	30.00			0.15	0.75	6.75	
	230.00	260.00		2	30.00			0.15	0.80	7.20	
	260.00	293.50		2	33.50			0.15	0.85	8.54	
	298.80	305.80		2	7.00			0.15	0.85	1.79	
	RHS From SWD to towards Devinagara Main Road										
	0.00	30.00		2	30.00			0.15	0.75	6.75	
	30.00	49.00		2	19.00			0.15	0.70	3.99	
	52.00	79.00		2	27.00			0.15	0.65	5.27	
	84.00	108.30		2	24.30			0.15	0.70	5.10	
	113.30	138.70		2	25.40			0.15	0.70	5.33	
	143.60	148.40		2	4.80			0.15	0.70	1.01	
	148.40	160.60		2	12.20			0.15	0.55	2.01	
	166.70	193.90		2	27.20			0.15	0.60	4.90	
	199.50	201.00		2	1.50			0.15	0.65	0.29	
	201.00	227.60		2	26.60			0.15	0.65	5.19	
	234.60	273.00		2	38.40			0.15	0.65	7.49	
	279.60	314.70		2	35.10			0.15	0.65	6.84	
							Total Qty in Cum			**213.54**	

TELUS CONSULTANTS PVT. LTD. Consultant

Assistant Engineer 7/11

7/11/17 Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
7	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.15, I.No.4.28 of PW, P&IWTD SR 2016-17)										
	LKR Nagara Main Road										
	LHS From SWD to towards Devinagara Main Road										
	17.20	26.70		2	9.50				0.25	4.75	CQAL Layout C/S Road Culvert
	51.70	60.00		2	8.30				0.25	4.15	New Culvert
	123.30	129.30		2	6.00				0.25	3.00	RMV Cluster Entrance
	RHS From SWD to towards Devinagara Main Road										
	160.60	166.70		2	6.10				0.25	3.05	Culvert 3rd Cross
	Cross Road Culvert Lkr Nagara										
	134.00	139.50		2	5.50				0.25	2.75	Culvert Constructed Lkr Nagara
							Total Qty in Sqm			**17.70**	

Consultant

Assistant Engineer W.08 4/11/17

Assistant Executive Engineer 4/11/17

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli											
BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
8	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.15, I.No.4.31 of PW,P&IWTD SR 2016-17)										
	LKR Nagara Main Road										
	LHS From SWD to towards Devinagara Main Road										
	17.20	26.70		4	9.50				0.80	30.40	CQAL Layout C/S Road Culvert
	51.70	60.00		4	8.30				0.75	24.90	New Culvert
	123.30	129.30		4	6.00				0.75	18.00	RMV Cluster Entrance
	RHS From SWD to towards Devinagara Main Road										
	160.60	166.70		4	6.10				0.60	14.64	Culvert 3rd Cross
	Cross Road Culvert Lkr Nagara										
	134.00	139.50		4	5.50				0.80	17.60	Culvert Constructed at Lkr Nagara
							Total Qty in Sqm			**105.54**	

Consultant

Assistant Engineer 5/11

Assistant Executive Engineer 5/11/22

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
9	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges) Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary beams. (P.No.18, I.No.4.48 of PW, P&IWTD SR 2016-17)										
	Culvert Raft Concrete										
	LKR Nagara Main Road										
	LHS From SWD to towards Devinagara Main Road										
	17.20	26.70		1	9.50			1.40	0.25	3.33	CQAL Layout C/S Road Culvert
	51.70	60.00		1	8.30			1.40	0.25	2.91	New Culvert
	123.30	129.30		1	6.00			1.40	0.25	2.10	RMV Cluster Entrance
	RHS From SWD to towards Devinagara Main Road										
	160.60	166.70		1	6.10			1.40	0.25	2.14	Culvert 3rd Cross
	Cross Road Culvert Lkr Nagara										
	134.00	139.50		1	5.50			1.25	0.25	1.38	Culvert Constructed at Lkr Nagara
	Culvert Side Wall Concrete										
	LHS From SWD to towards Devinagara Main Road										
	17.20	26.70		2	9.50			0.25	0.80	3.80	CQAL Layout C/S Road Culvert
	51.70	60.00		2	8.30			0.25	0.75	3.11	New Culvert
	123.30	129.30		2	6.00			0.25	0.75	2.25	RMV Cluster Entrance
	RHS From SWD to towards Devinagara Main Road										
	160.60	166.70		2	6.10			0.25	0.60	1.83	Culvert 3rd Cross
	Cross Road Culvert Lkr Nagara										
	134.00	139.50		2	5.50			0.25	0.80	8.80	New Culvert
							Total Qty in Sqm			**31.63**	

CONSULTANT
Consultant

Assistant Engineer 8/11

Assistant Executive Engineer 8/11/17

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
10	KSRB - 4.9.2: Providing TMT steel Fe500 reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per									
							Unit weight of steel / meter			
	New Drain									
	LHS									
	10mm main U bars									
	main bars	1	6033	2.20			0.617		8189.19	
	Distribution bars									
	8mm Dia bars									
	Distribution bars	1	9	603.30			0.390		2117.58	
	Culvet									
	12 main U bars									
	inner main bars	1	236	2.20			0.889		461.57	
	outer main bars	1	236	2.90			0.889		608.43	
	Distribution bars									
	10mm Dia bars									
	inner main bars	1	15	35.40			0.617		327.63	
	outer main bars	1	19	35.40			0.617		414.99	
	chairs 12mm dia	1	18	0.6			0.889		9.60	
									12129.00	**kgs**
							Total		**12.13**	**MT**

Consultant

Assistant Engineer W.08 26/10

Assistant Executive Engineer 27/10/17

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
11	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 10cms thick (P.No.25, I.No.5.31.2 of PW, P&IWTD SR 2016-17)										
	Lkr Nagara main Road										
	LHS From Railway Gate to Towards SWD Drain										
	273.30	286.60		1.00	13.30			0.90		11.97	New Bs Cover
	286.60	310.40		1.00	23.80			0.90		21.42	New Bs Cover
	310.40	361.40		1.00	51.00			0.90		45.90	New Bs Cover
	LHS From SWD to towards Devinagara Main Road										
	0.00	17.20		1	17.20			0.90		15.48	New BS Cover
	39.70	51.70		1	12.00			0.90		10.80	New BS Cover
	60.00	85.30		1	25.30			0.90		22.77	New BS Cover
	95.00	109.60		1	14.60			0.90		13.14	New BS Cover
	117.80	123.30		1	5.50			0.90		4.95	New BS Cover
	129.30	157.30		1	28.00			0.90		25.20	New BS Cover
	164.00	172.00		1	8.00			0.90		7.20	New BS Cover
	200.00	230.00		1	30.00			0.90		27.00	New BS Cover
	200.00	230.00		1	30.00			2.10		63.00	New Footpath BS Cover
	230.00	250.00		1	20.00			0.90		18.00	New BS Cover
	250.00	260.00		1	10.00			0.90		9.00	New BS Cover
	283.50	293.50		1	10.00			0.90		9.00	New BS Cover
	298.80	305.80		1	7.00			0.90		6.30	New BS Cover
	RHS From SWD to towards Devinagara Main Road										
	0.00	18.00		1	18.00			0.90		16.20	New BS Cover
	18.00	30.00		1	12.00			0.90		10.80	New BS Cover
	30.00	49.00		1	19.00			0.90		17.10	New BS Cover
	52.00	79.00		1	27.00			0.90		24.30	New BS Cover
	84.00	108.30		1	24.30			0.90		21.87	New BS Cover
	113.30	138.70		1	25.40			0.90		22.86	New BS Cover
	148.40	160.60		1	12.20			0.90		10.98	New BS Cover
	190.90	193.90		1	3.00			0.90		2.70	New BS Cover
	201.00	227.60		1	26.60			0.90		23.94	New BS Cover
	234.60	273.00		1	38.40			0.90		34.56	New BS Cover
	279.60	314.70		1	35.10			0.90		31.59	New BS Cover
							Total Qty in Sqm			**528.03**	

Consultant

Assistant Engineer

24/11

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
12	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications, (only chamfered length shall be recorded) KBS 5.1.13 (P.No.24, I.No.5.22 of PW,P&IWTD SR 2016-17)										
	Lkr Nagara main Road										
	LHS From Railway Gate to Towards SWD Drain										
	273.30	286.60		22.00				3.00		66.00	
	286.60	310.40		40.00				3.00		120.00	
	310.40	361.40		85.00				3.00		255.00	
	LHS From SWD to towards Devinagara Main Road										
	0.00	17.20		29.00				3.00		87.00	
	26.70	39.70		22.00				3.00		66.00	
	39.70	51.70		20.00				3.00		60.00	
	60.00	85.30		42.00				3.00		126.00	
	93.00	95.00		3.00				3.00		9.00	
	95.00	109.60		24.00				3.00		72.00	
	117.80	123.30		9.00				3.00		27.00	
	129.30	157.30		47.00				3.00		141.00	
	164.00	172.00		13.00				3.00		39.00	
	180.40	198.40		30.00				3.00		90.00	
	198.40	200.00		3.00				3.00		9.00	
	200.00	230.00		50.00				3.00		150.00	
	230.00	250.00		33.00				3.00		99.00	
	250.00	260.00		17.00				3.00		51.00	
	260.00	283.50		39.00				3.00		117.00	
	283.50	293.50		17.00				3.00		51.00	
	298.80	305.80		12.00				3.00		36.00	
										0.00	
	RHS From SWD to towards Devinagara Main Road										
	0.00	18.00		30.00				3.00		90.00	
	18.00	30.00		20.00				3.00		60.00	
	30.00	49.00		32.00				3.00		96.00	
	52.00	79.00		45.00				3.00		135.00	
	84.00	104.30		34.00				3.00		102.00	
	104.30	108.30		7.00				3.00		21.00	
	113.30	138.70		42.00				3.00		126.00	
	148.40	160.60		20.00				3.00		60.00	
	166.70	190.90		40.00				3.00		120.00	
	190.90	193.90		5.00				3.00		15.00	
	193.90	199.50		9.00				3.00		27.00	
	199.50	201.00		3.00				3.00		9.00	
	201.00	227.60		44.00				3.00		132.00	
	234.60	273.00		64.00				3.00		192.00	
	279.60	314.70		58.00				3.00		174.00	
								Total Qty in Rmt		**3030.00**	

Consultant

Assistant Engineer 24/11

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bengaluru.

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
13	Providing One line dressing to granite stone slab/ granite stone masonry as per speciication (P.No.23, I.No.5.17 of PW,P&IWTD SR 2016-17)										
	Lkr Nagara main Road										
	39.70										
	273.30	286.60		22.00	0.60			0.90		19.80	
	286.60	310.40		40.00	0.60			0.90		36.00	
	310.40	361.40		85.00	0.60			0.90		76.50	
	LHS From SWD to towards Devinagara Main Road										
	0.00	17.20		29.00	0.60			0.90		26.10	
	26.70	39.70		22.00	0.60			0.90		19.80	
	39.70	51.70		20.00	0.60			0.90		18.00	
	60.00	85.30		42.00	0.60			0.90		37.80	
	93.00	95.00		3.00	0.60			0.90		2.70	
	95.00	109.60		24.00	0.60			0.90		21.60	
	117.80	123.30		9.00	0.60			0.90		8.10	
	129.30	157.30		47.00	0.60			0.90		42.30	
	164.00	172.00		13.00	0.60			0.90		11.70	
	180.40	198.40		30.00	0.60			0.90		27.00	
	198.40	200.00		3.00	0.60			0.90		2.70	
	200.00	230.00		50.00	0.60			0.90		45.00	
	230.00	250.00		33.00	0.60			0.90		29.70	
	250.00	260.00		17.00	0.60			0.90		15.30	
	260.00	283.50		39.00	0.60			0.90		35.10	
	283.50	293.50		17.00	0.60			0.90		15.30	
	298.80	305.80		12.00	0.60			0.90		10.80	
					0.60			0.90		0.00	
	RHS From SWD to towards Devinagara Main Road										
	0.00	18.00		30.00	0.60			0.90		27.00	
	18.00	30.00		20.00	0.60			0.90		18.00	
	30.00	49.00		32.00	0.60			0.90		28.80	
	52.00	79.00		45.00	0.60			0.90		40.50	
	84.00	104.30		34.00	0.60			0.90		30.60	
	104.30	108.30		7.00	0.60			0.90		6.30	
	113.30	138.70		42.00	0.60			0.90		37.80	
	148.40	160.60		20.00	0.60			0.90		18.00	
	166.70	190.90		40.00	0.60			0.90		36.00	
	190.90	193.90		5.00	0.60			0.90		4.50	
	193.90	199.50		9.00	0.60			0.90		8.10	
	199.50	201.00		3.00	0.60			0.90		2.70	
	201.00	227.60		44.00	0.60			0.90		39.60	
	234.60	273.00		64.00	0.60			0.90		57.60	
	279.60	314.70		58.00	0.60			0.90		52.20	
								Total Qty in Sqm		**909.00**	

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
21	Providing and fixing **RCC Precast cover slab of 250mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)										
	Lkr Nagara main Road										
	LHS From SWD to towards Devinagara Main Road										
	17.20	26.70		1	9.50			1.50		14.25	CQAL Layout C/S Road Culvert
	51.70	60.00		1	8.30			1.50		12.45	New Culvert
	123.30	129.30		1	6.00			1.50		9.00	RMV Cluster Entrance
	RHS From SWD to towards Devinagara Main Road										
	160.60	166.70		1	6.10			1.50		9.15	Culvert 3rd Cross
	Cross Road Culvert Lkr Nagara										
	134.00	139.50		1.00	5.50			1.50		8.25	Culvert Constructed At Lkr Nagara
							Total Qty in Sqm			**53.10**	

Consultant

Assistant Engineer 27/11

Assistant Executive Engineer 27/11/12

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
22	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete (P.No.25, I.No.5.30 of PW,P&IWTD S.R 2016-17)										
	Lkr Nagara main Road										
	LHS From SWD to towards Devinagara Main Road										
	0.00	17.20		1	17.20			/0.45		38.00	
	26.70	39.70		1	13.00			/0.45		29.00	
	39.70	51.70		1	12.00			/0.45		27.00	
	60.00	85.30		1	25.30			/0.45		56.00	
	95.00	109.60		1	14.60			/0.45		32.00	
	Approach			1	2.40			/0.45		5.00	
	117.80	123.30		1	5.50			/0.45		12.00	
	129.30	157.30		1	28.00			/0.45		62.00	
	Approach			1	2.00			/0.45		4.00	
	164.00	172.00		1	8.00			/0.45		18.00	
	Approach			1	2.80			/0.45		6.00	
	180.40	198.40		1	18.00			/0.45		40.00	
	200.00	230.00		1	30.00			/0.45		67.00	
	230.00	260.00		1	30.00			/0.45		67.00	
	260.00	293.50		1	33.50			/0.45		74.00	
				1	3.00			/0.45		7.00	
	298.80	305.80		1	7.00			/0.45		16.00	
								/0.45			
	RHS From SWD to towards Devinagara Main Road										
	0.00	30.00		1	30.00			/0.45		67.00	
	30.00	49.00		1	19.00			/0.45		42.00	
	52.00	79.00		1	27.00			/0.45		60.00	
	84.00	104.30		1	20.30			/0.45		45.00	
	104.30	108.30		1	2.50			/0.45		6.00	Dedct main Road Culvert length
	113.30	138.70		1	25.40			/0.45		56.00	
	148.40	160.60		1	12.20			/0.45		27.00	
	166.70	193.90		1	27.20			/0.45		60.00	
	201.00	227.60		1	25.10			/0.45		56.00	Kerb 1.5m Deduction
	234.60	273.00		1	38.40			/0.45		85.00	
	279.60	314.70		1	35.10			/0.45		78.00	
								Total Qty in Nos		**1142.00**	

Consultant

Assistant Engineer 23/11/17

Assistant Executive Engineer 27/11/17

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bengalore.

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
25	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)										
	Lkr Nagara main Road										
	LHS From SWD to towards Devinagara Main Road										
	0.00	30.00			30.00	3.65	3.40	3.53	0.30	31.73	Bwssb Cut portion and Widening
	30.00	60.00			30.00	3.40	2.60	3.00	0.30	27.00	Bwssb Cut portion and Widening
	60.00	95.70			35.70	2.60	1.75	2.18	0.30	23.29	Bwssb Cut portion and Widening
	95.70	97.20			1.50				-		Main Road Culvert
	97.20	112.00			14.80	1.20	1.20	1.20	0.30	5.33	Bwssb Cut portion and Widening
	112.00	127.00			15.00	2.50	2.50	2.50	0.30	11.25	Bwssb Cut portion
	127.00	157.00			30.00	2.50	2.70	2.60	0.30	23.40	Bwssb Cut portion and Widening
	157.00	173.00			16.00	1.80	1.80	1.80	0.30	8.64	Bwssb Cut portion
	173.00	202.00			29.00	2.80	2.80	2.80	0.30	24.36	Bwssb Cut portion and Widening
	202.00	203.50			1.50				-		
	203.50	233.50			30.00	2.20	2.00	2.10	0.30	18.90	Bwssb Cut portion and Widening
	233.50	263.50			30.00	2.00	2.20	2.10	0.30	18.90	Bwssb Cut portion and Widening
	263.50	293.50			30.00	2.20	1.70	1.95	0.30	17.55	Bwssb Cut portion
	293.50	317.00			23.50	1.70	1.20	1.45	0.30	10.22	Bwssb Cut portion
	RHS From SWD to towards Devinagara Main Road								-		
	0.00	30.00			30.00	0.60	1.40	1.00	0.30	9.00	RHS Widening Portion
	30.00	60.00			30.00	1.40	0.95	1.18	0.30	10.58	RHS Widening Portion
	60.00	95.70			35.70	0.95	1.20	1.08	0.30	11.51	RHS Widening Portion
	95.70	97.20			1.50				-		
	97.20	127.00			29.80	1.20	1.65	1.43	0.30	12.74	RHS Widening Portion
	127.00	157.00			30.00	1.65	1.20	1.43	0.30	12.83	RHS Widening Portion
	157.00	173.00			16.00	1.20	0.95	1.08	0.30	5.16	RHS Widening Portion
	173.00	202.00			29.00	0.95	2.00	1.48	0.30	12.83	RHS Widening Portion
	202.00	203.50			1.50				-		
	203.50	233.50			30.00	2.00	1.25	1.63	0.30	14.63	RHS Widening Portion
	233.50	263.50			30.00	1.25	0.70	0.98	0.30	8.78	RHS Widening Portion
	263.50	293.50			30.00	0.70	0.95	0.83	0.30	7.43	RHS Widening Portion
	293.50	317.00			23.50	0.95	0.50	0.73	0.30	5.11	RHS Widening Portion
							Total Qty in Cum			**331.15**	

Consultant

Assistant Engineer 1/12/17

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
26	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)										
	Lkr Nagara main Road										
	LHS From SWD to towards Devinagara Main Road										
	0.00	30.00			30.00	3.65	3.40	3.53	0.23	24.32	Bwssb Cut portion and Widening
	30.00	60.00			30.00	3.40	2.60	3.00	0.23	20.70	Bwssb Cut portion and Widening
	60.00	95.70			35.70	2.60	1.75	2.18	0.23	17.86	Bwssb Cut portion and Widening
	95.70	97.20			1.50						Main Road Culvert
	97.20	112.00			14.80	1.20	1.20	1.20	0.23	4.08	Bwssb Cut portion and Widening
	112.00	127.00			15.00	2.50	2.50	2.50	0.23	8.63	Bwssb Cut portion
	127.00	157.00			30.00	2.50	2.70	2.60	0.23	17.94	Bwssb Cut portion and Widening
	157.00	173.00			16.00	1.80	1.80	1.80	0.23	6.62	Bwssb Cut portion
	173.00	202.00			29.00	2.80	2.80	2.80	0.23	18.68	Bwssb Cut portion and Widening
	202.00	203.50			1.50						Main Road Culvert
	203.50	233.50			30.00	2.20	2.00	2.10	0.23	14.49	Bwssb Cut portion and Widening
	233.50	263.50			30.00	2.00	2.20	2.10	0.23	14.49	Bwssb Cut portion and Widening
	263.50	293.50			30.00	2.20	1.70	1.95	0.23	13.46	Bwssb Cut portion
	293.50	317.00			23.50	1.70	1.20	1.45	0.23	7.84	Bwssb Cut portion
	RHS From SWD to towards Devinagara Main Road										
	0.00	30.00			30.00	0.60	1.40	1.00	0.23	6.90	Widening Portion
	30.00	60.00			30.00	1.40	0.95	1.18	0.23	8.11	Widening Portion
	60.00	95.70			35.70	0.95	1.20	1.08	0.23	8.83	Widening Portion
	95.70	97.20			1.50						Main Road Culvert
	97.20	127.00			29.80	1.20	1.65	1.43	0.23	9.77	Widening Portion
	127.00	157.00			30.00	1.65	1.20	1.43	0.23	9.83	Widening Portion
	157.00	173.00			16.00	1.20	0.95	1.08	0.23	3.96	Widening Portion
	173.00	202.00			29.00	0.95	2.00	1.48	0.23	9.84	Widening Portion
	202.00	203.50			1.50						Main Road Culvert
	203.50	233.50			30.00	2.00	1.25	1.63	0.23	11.24	Widening Portion
	233.50	263.50			30.00	1.25	0.70	0.98	0.23	6.73	Widening Portion
	263.50	293.50			30.00	0.70	0.95	0.83	0.23	5.69	Widening Portion
	293.50	317.00			23.50	0.95	0.50	0.73	0.23	3.92	Widening Portion
							Total Qty in Cum			**253.88**	

Consultant

Assistant Engineer 4/12/17

Assistant Executive Engineer 4/12/17

Assistant Executive Engine
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.